

SUBSTITUTE ABSTRACT

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ABSTRACT

A method is provided for producing a part made of a silver-based alloy using an initial alloy, the initial alloy comprising silver and at least one metal soluble in silver at contents between 0.04 and 4 atomic%, the at least one metal being capable of forming a stable oxide at high temperature. The method may comprise oxygenation of the initial alloy at a temperature of about 300°C, so as to dissolve oxygen into the silver contained in the initial alloy, partial oxidation of the at least one metal at a temperature of between 400 and 850°C, so as to form precipitate particles that prevent the alloy grains from coarsening, and complete oxidation of the at least one metal at a temperature of between 400 and 850°C, wherein the oxidation takes place in at least an outer layer of the alloy, and wherein the at least one metal forms an oxide stable at high temperature.